Table-II-3: Support Costs

(A) Development and Calibration Cost of Heavy-Duty Diesel OBD Technology (Research)

Staff	Number of Staff	Staff Cost (a)	Testing Costs (b)	Equipment and	Cost/vehicle(c)
				Limit Parts	
	(person yrs.)	(in dollars)	(in dollars)	(in dollars)	(dollars/veh.)
	0	0	23,402,785	1,000 1,212,950	54.18 <u>56.98</u>
Engineer	75.73	9,713,866	0	0	22.49
			76.66 79.47		

(B) DDV and PVE Testing Cost of Heavy-Duty Diesel OBD (Engineering Support)

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Staff	Number of Staff	Staff Cost (a)	Testing and	Cost/vehicle(c)
			Equipment Costs (d)	
	(person yrs.)	(in dollars)	(in dollars)	(dollars/veh.)
	0	0	0	0.00
Test Cell	0.60	59,980	156,038	0.50
Technician				
			Total	0.50

(C) Legal and Administrative costs

	No. of Staff required	Number of vears	Staff cost (in dollars)	Cost/vehicle (c) (dollars/vehicle)
Legal	0.25	3	150,000	0.35
Administrative	1	6	900,000	2.08
			Total	2.43

- (a) Development cost includes personnel, overhead and other miscellaneous costs at a total rate of \$150k/yr for an engineer and \$100k/yr for a technician.
- (b) Testing Costs includes Labor Costs for Technicians needed to staff the Tests
- (c) Staff cost has been distributed over 72,000 diesel engines per year for a total of 6 years.
- (d) Equipment costs have been distributed over 72,000 diesel engines per year for a total of 6 years

Table II-4: Incremental Consumer Cost of Heavy-Duty Diesel Vehicle OBD System

-		HDDV
		(in dollars)
Variable costs	Component	37.18
	Assembly	0.68
	Warranty	1.64
	Shipping	1.20
Support costs	Research	22.49
	Engineering Support	0.14
	Legal	0.35
	Administrative	2.08
Investment	Mach. & equipment	0.00
recovery costs	Assembly plant changes	0.00
	Development/Testing	54.54 <u>57.34</u>
Capital recovery (a)		7.22 7.39
Truck/Coach Builder costs	Cost of capital recovery	1.87 1.91
	(b)	
Total cost		129.37 <u>132.39</u>

⁽a) Cost of capital recovery was calculated at 6% of the total incremental costs.

⁽b) Cost of capital recovery was calculated at 6%. Engines are assumed to remain in inventory for 3 months.

ATTACHMENT IV